

**Part II Presentations**  
**Tuesday 10th and Wednesday 11th May 2011 (Week 2, Trinity Term)**  
**Hume-Rothery Lecture Theatre**

<b>Tuesday 10 May</b>				
10.30	<b>Introduction: Dr K A Q O'Reilly</b>			
10.45	Filip Aukstol	QNS	BL/SCB	Spin amplification and quantum memory systems – an overview
11.00	Joe Bennett	STC	RIT	Superplasticity
11.15	Tim Butler	STC	RIT	In situ ceramic nanocomposites by solid state precipitation
11.30	Jack Spawton	MAN	RIT/C Dancer	Ceramic armour
11.45	Katherine Inzani	SEH	JHW	Growing ultralong carbon nanotubes for electronic devices
<b>12.00</b>	<b>Lunch (<i>St Edmund Hall</i>)</b>			
2.00	Joshua Stone	STA	PRW	The characterization of diffusion barriers for semi-insulating silicon
2.15	George Martins	STA	PRW/JDM	Development of novel geometry silicon solar cells
2.30	Edward Inns	STA	PRW/JDM/SS	Novel passivation methods for crystalline silicon solar cells
2.45	Faraz Sayed	TRI	SS	Superconducting metamaterials on curved substrates
3.00	Jessica Smith	STA	JTC	The effects of structural and compositional variations to the mechanical properties of bovine tendon
<b>3.15</b>	<b>Tea (<i>Hume-Rothery Foyer</i>)</b>			
3.45	Sam Halliday	TRI	JTC	Tissue engineering with collagen fibres
4.00	Cheuk Wong	STC	HEA	Transparent ultra-high barrier polymer films
4.15	Helen Dugdale	MAN	SL-P/SGR	Understanding crack growth in nuclear reactors
4.30	James Gibson	CCC	SGR/D Armstrong	Tungsten for fusion applications: micromechanics
4.45	David Lloyd	CCC	SGR/C English	Hydride cracking in zirconium

<b>Wednesday 11 May</b>				
9.00	James Thompson	QNS	VN/PDN	Functionalising grapheme and other layered nanomaterials
9.15	Jodie Melbourne	QNS	NG/VN/R Nicholls	Novel routes to inorganic nanomaterials
9.30	Iain Parr	SEH	KAQO'R/MG	Producing functionally graded aluminium composites
9.45	Stephen Hill	QNS	KAQO'R/MG	Peritectic aluminium master alloy solidification
10.00	Sandy Knowles	SEH	MG/F Audebert	Development of aluminium matrix nanocomposites
<b>10.15</b>	<b>Coffee (<i>Hume-Rothery Foyer</i>)</b>			
10.45	Tom Walton	QNS	AARW	Nanocrystal photovoltaics
11.00	Rob Clough	MAN	AIK/GM	Supporting thin silicon membranes
11.15	Kate McArthur	CCC	AIK/ N Young	Nanoparticle structure investigations through ex-situ heating
<b>11.30</b>	<b>Judging (<i>Hume-Rothery Meeting Room</i>)</b>			
<b>12.00</b>	<b>Lunch (<i>Hume-Rothery Meeting Room</i>)</b>			